

AMENDMENT TO THE CLAIMS

1. (Currently amended) A method for estimating an effect on prices of energy due to regulating the energy flow in an energy network, said network comprising at least a first area of interconnected energy producers and energy consumers of energy and a second area of interconnected energy producers and energy consumers of energy, in which the energy network comprises at least one network connection that limits the transportation capacity of the energy network between said first area and said second area, the method comprising:

providing one or more computers for running a market for each of the first and second areas, and a combined market for the energy network; receiving data indicative of intended energy production by the producers and the intended energy consumption by the consumers for each of the first and second areas;

determining isolated-equilibrium energy prices in the first area and in the second area based on supply and demand in each respective area when a market for the first energy area is isolated from a market for the second energy area;

determining-conducting simulated available-energy flow transportation capacity of the energy network over the network connection between said first area and said second area using a computer;

determining an effect on energy prices in said first area and in said second area on the basis of the isolated-equilibrium energy prices, the and a computer-simulated transportation of energy flow over the network

connection and on the ~~basis of the available~~ transportation capacity over the network connection; and
~~outputting~~ providing information related to the effect on energy prices in said
first area and the second area for use by at least one of the energy
producers, the energy consumers and an operator of the network
connection.

2. (Currently amended) The method according to claim 1, wherein the ~~energy~~
~~flow data comprise~~ information comprises a common adjusted energy price for the
first area and the second area.

3. (Currently amended) The method according to claim 1, wherein the ~~energy~~
~~flow data comprise~~ information includes data on actual transportation of energy to be
transferred over the network connection.

4. (Withdrawn) The method according to claim 1 and further comprising:
receiving bids regarding at least one of intended energy production by an
energy producer and intended energy consumption by an energy consumer;
and deciding

determining on the basis of the energy flow data information ~~whether which~~
bids are accepted.

~~with regard to the at least one of intended energy production and the intended~~
~~energy consumption will be accepted.~~

5. (Currently amended) The method according to claim 1 and further comprising ~~outputting data~~providing information indicative of rights to ~~transportation capacity~~transport energy over the network connection to at least one of the energy producers and the energy consumers.

6. (Currently amended) The method according to claim 5, wherein the rights to transport energy over the network connection to at least one of the energy producers and the energy consumers includes a condition~~.to transportation capacity are conditionally made available.~~

7. (Currently amended) The method according to claim 6, wherein said condition relates to the difference between the isolated~~-equilibrium~~ energy prices in the areas.

8. (Withdrawn) The method according to claim 5, wherein receiving bids comprises receiving a bid involving energy production in one of the areas and energy consumption in the other area~~.the rights to transportation capacity are made available by making an inter-area bid, whether or not in combination with a bid to sell in one area and a bid to buy in the other area.~~

9. (Cancelled)

10. (Cancelled)

11. (Cancelled)

12. (Cancelled)

13. (Cancelled)

14. (Cancelled)

15. (Cancelled)

16. (Cancelled)

17. (Cancelled)

18. (Currently amended) A method for estimating an effect on prices of energy due to regulating the energy flow in an energy network comprising at least a first area of interconnected energy producers and energy consumers of energy and a second area of interconnected energy producers and energy consumers of energy, in which the energy network comprises a network connection that limits the transportation capacity of the energy network, ~~a communication network comprising a combination server, which is communicatively linked to servers of associated with the producers and/or the consumers in the first area and the second area,~~ the method comprising:

providing a server for running a combined market for the first and second areas, and communicatively connected to one or more energy producers, energy consumers and an operator of the network connection receiving one or more

~~data strings from the servers associated with the producers and the consumers, which data strings contain data on the intended energy production and the intended energy consumption, respectively;~~
~~calculating or receiving at the combination server isolated~~ obtaining equilibrium
energy prices in the first area and the second area when a market for the first
energy area is isolated from a market for the second energy area;~~based on~~
~~supply and demand in each respective area in each respective area;~~
using the combination server to calculate ~~adjusted~~ new energy prices in the first
area and in the second area on the basis of the equilibrium ~~isolated~~ energy
prices, and a computer simulated transportation of energy over the network
connection and the available transportation capacity of the energy network
between said first area and said second area; and
providing information related ~~outputting energy flow data over the communications~~
~~network to~~ at least one of the energy producers, the energy consumers and to
an operator of the network connection.

19. (Currently amended) The method according to claim 18, wherein the
~~energy flow data comprise~~ information comprises a common adjusted energy price
for the first area and the second area or the ~~adjusted~~ new energy prices for the first
area and the second area.

20. (Currently amended) The method according to claim 18, wherein the
~~energy flow data comprise~~ information includes data on actual transportation of
energy to be transferred over the network connection.

21. (Withdrawn) The method according to claim 18 and further comprising:
receiving bids regarding at least one of intended energy production by an
energy producer and intended energy consumption by an energy consumer;
and

determining on the basis of the information which bids are accepted.
~~deciding on the basis of the energy flow data whether bids with regard to at least one~~
~~of the intended energy production and intended energy consumption will be~~
~~accepted.~~

22. (Currently amended) The method according to claim 18 and further
comprising providing information indicative of rights to transport energy over the
network connection to at least one of the energy producers and the energy
consumers.~~outputting data indicative of rights to transportation capacity to at least~~
~~one of the producers and the consumers.~~

23. (Currently amended) The method according to claim 22, wherein the
rights to transport energy over the network connection to at least one of the energy
producers and the energy consumers includes a condition.~~to transportation capacity~~
~~are conditionally made available.~~

24. (Currently amended) The method according to claim 23, wherein the
condition relates to the difference between the ~~isolated~~ equilibrium energy prices in
the first and second area.

25. (Withdrawn) The method according to claim 22 wherein receiving bids comprises receiving a bid involving energy production in one of the areas and energy consumption in the other area~~and further comprising making available the rights to transportation by making an inter-area bid, whether or not in combination with a bid to sell in one area and to buy in another area.~~

26. (Cancelled)

27. (Cancelled).

28. (Currently amended) The method according to claim 1 wherein the ~~energy flow data includes at least one of the adjusted energy prices for the first area and the second area~~information is indicative of the adjusted~~new~~ energy prices not being equal to each other.

29. (New) A server for estimating an effect on prices of energy due to energy flow in an energy network, the energy network comprising at least a first area of interconnected energy producers and energy consumers and a second area of interconnected energy producers and energy consumers, and a network connection that limits the transportation capacity of the energy network, the server configured to obtain equilibrium energy prices in the first area and the second area when a market for the first energy area is isolated from a market for the second energy area, the server further configured to calculate new energy prices in the first area and in the second area on the basis of the equilibrium energy prices, a computer simulated transportation of energy over the network connection and the transportation capacity

of the energy network between said first area and said second area, and the server further configured to output information related to at least one of the energy producers, the energy consumers and to an operator of the network connection.

30. (New) The server of claim 29 wherein the server is configured to simulate energy flow in the network.

31. (New) The server of claim 30 wherein the server is configured to receive equilibrium energy prices in the first area and the second area when a market for the first energy area is isolated from a market for the second energy area.

32. (New) The server of claim 30 wherein the server is configured to calculate equilibrium energy prices in the first area and the second area when a market for the first energy area is isolated from a market for the second energy area.